

Figure 1. Melting Curves for Genotyping
the Most Stable Mismatch

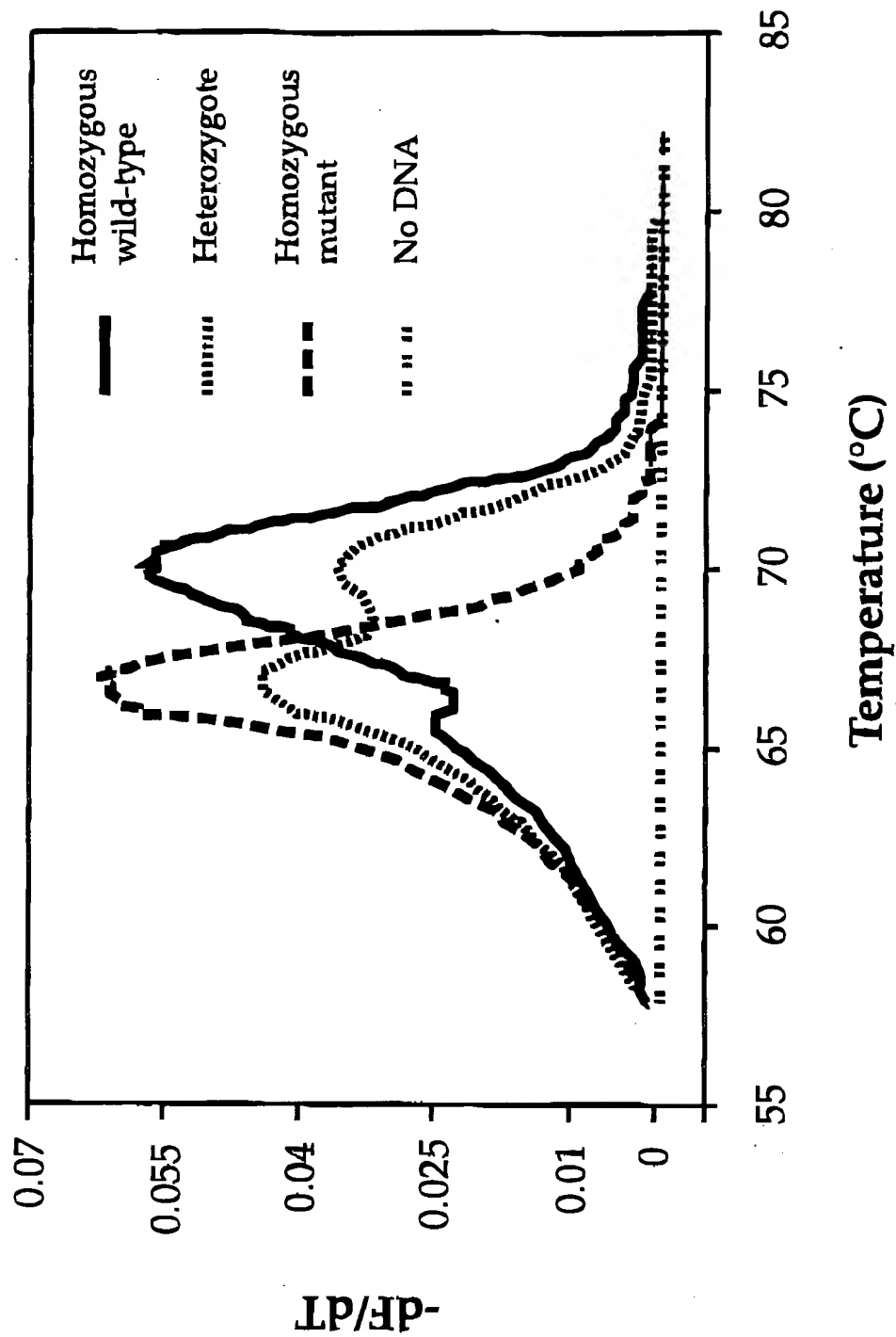
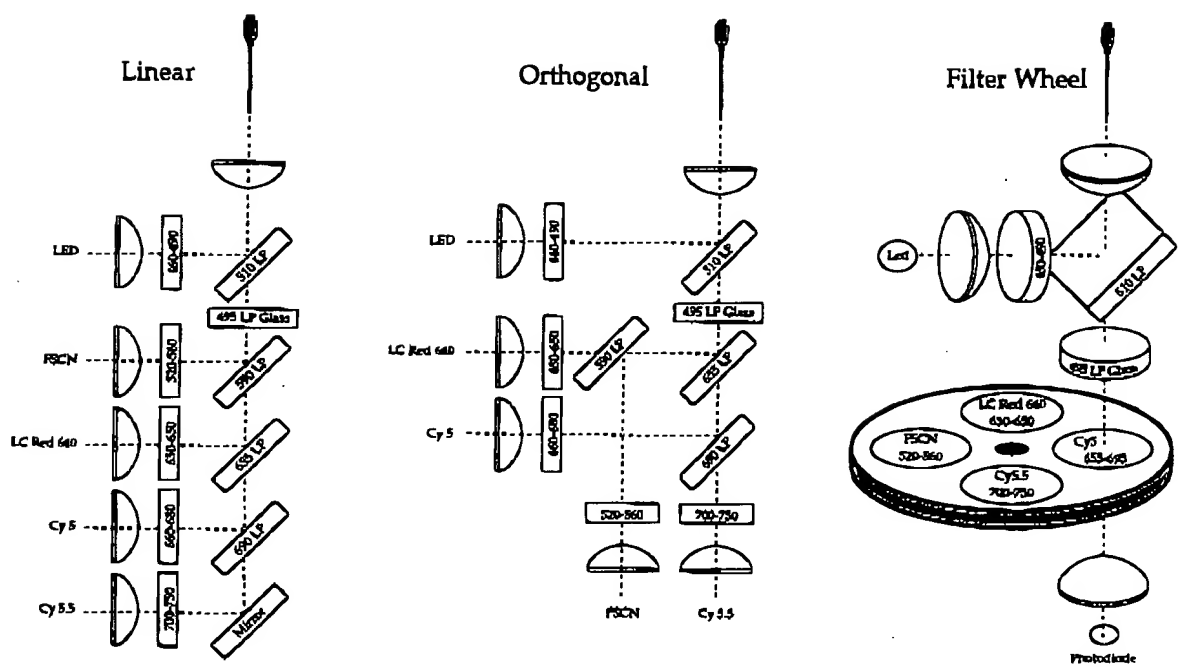


Figure 8. Four Color Light Cycler™ - Optical Design



Percent of Spectra in Band Pass

	FSCN	LC Red 640	Cy 5	Cy 5.5
LED	47	0.8	0.2	0.3
FSCN	48	<0.1	<0.1	<0.1
LC Red 640	1.5	41	7.8	0.8
Cy 5	0.7	14	43	11
Cy 5.5	0.4	7.7	16	49

Figure 10.

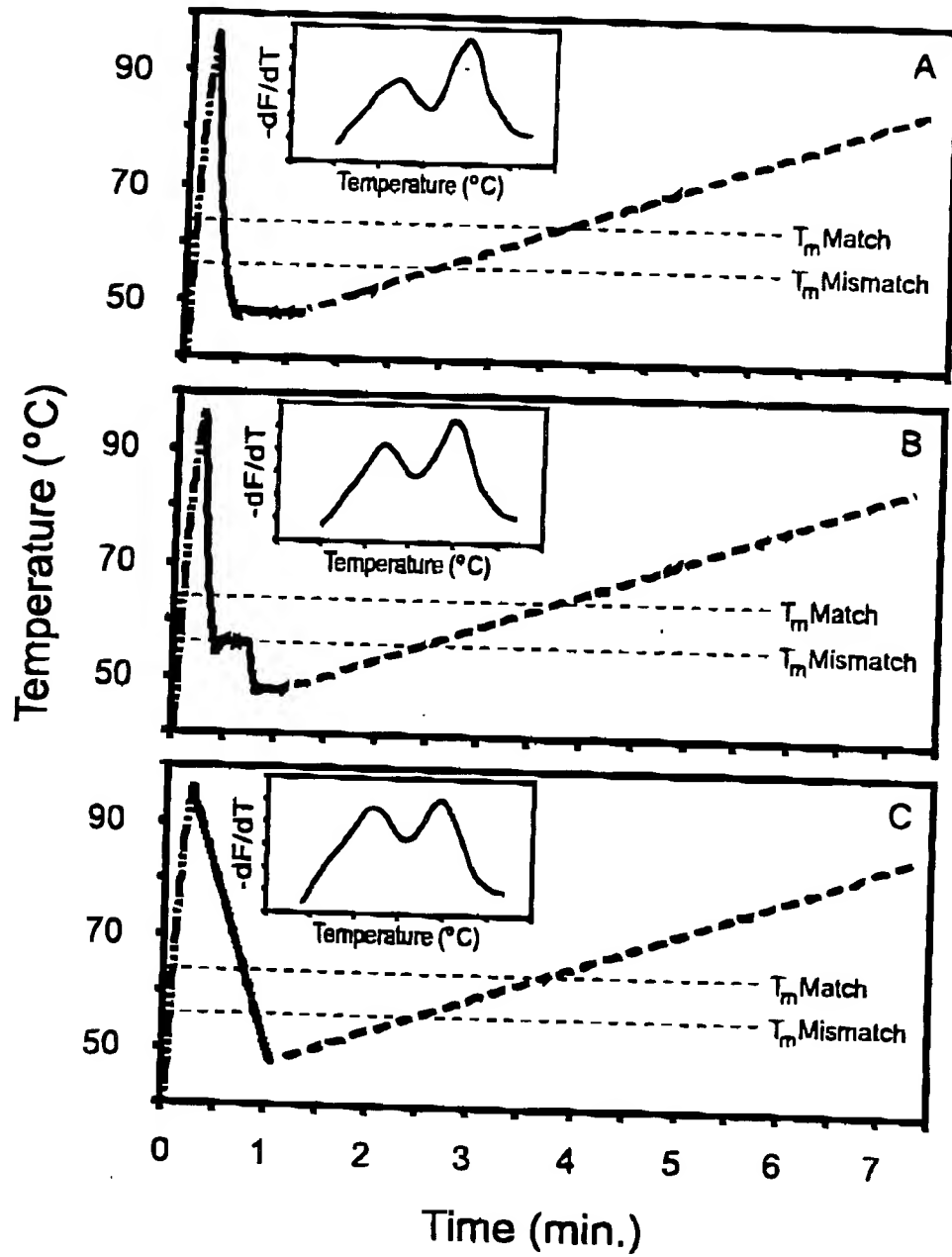


Figure 11.

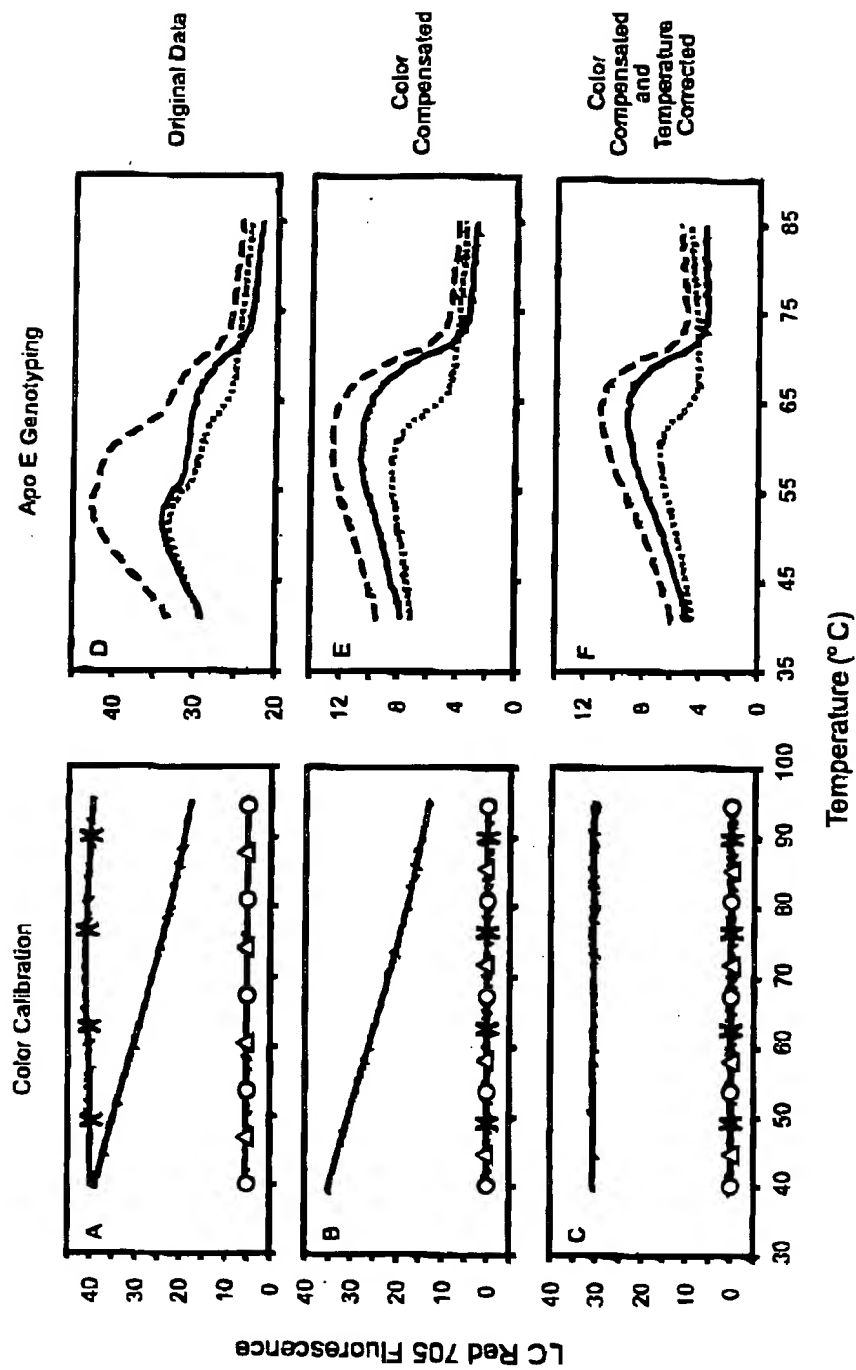


Figure 12.

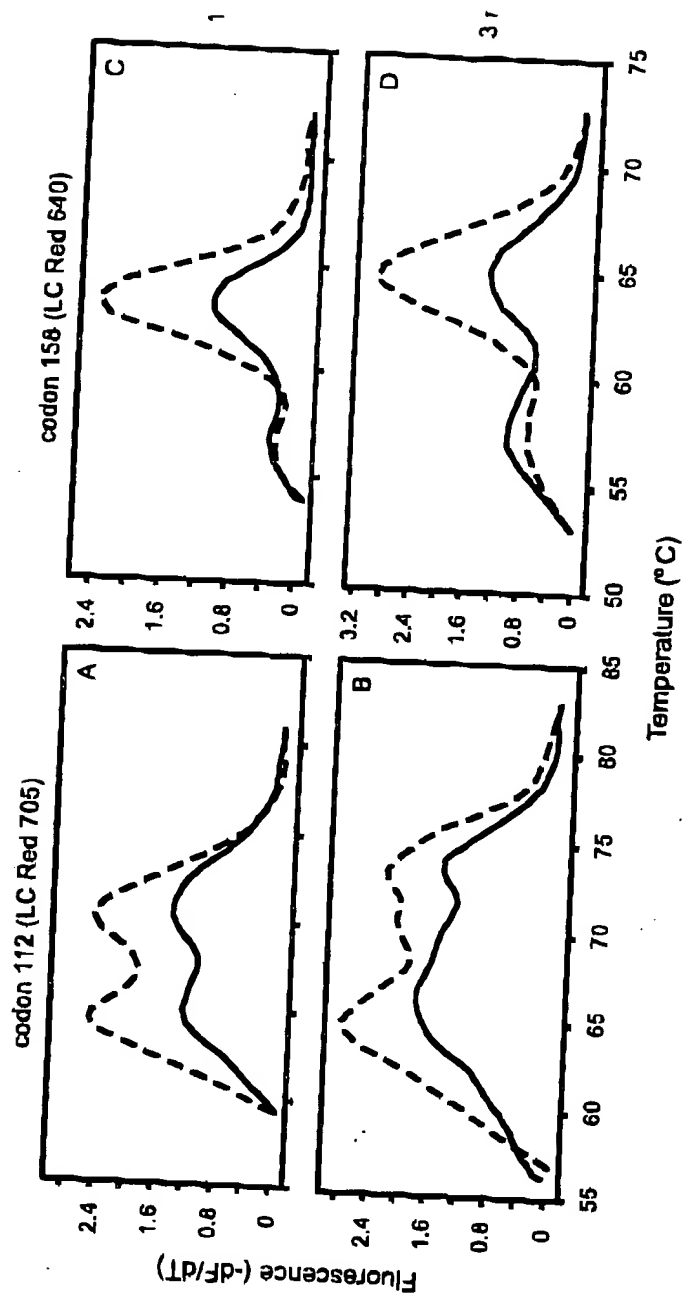


Figure 13.

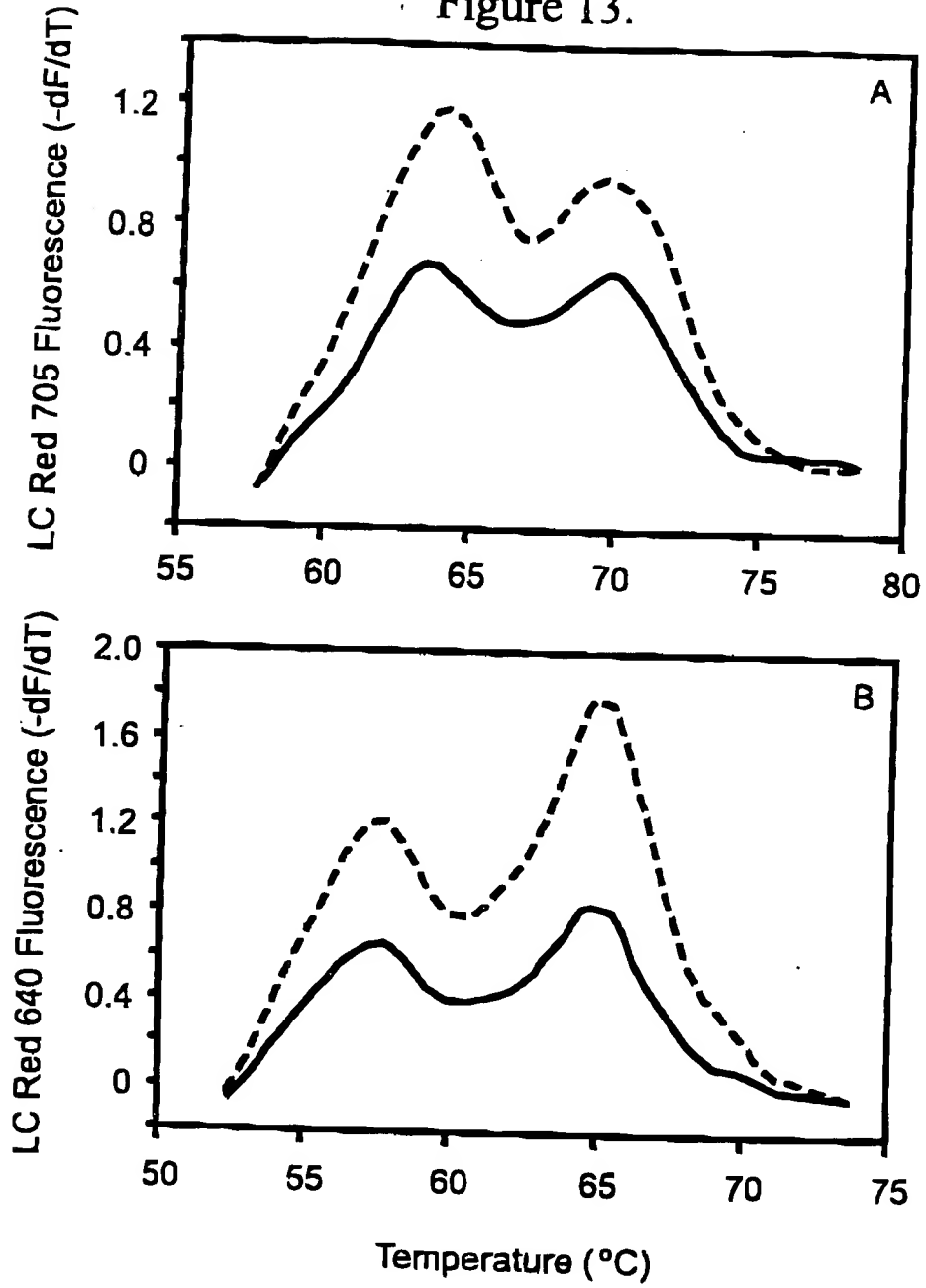


Figure 18.

Sequence Variation and Probe Design at HLA-A

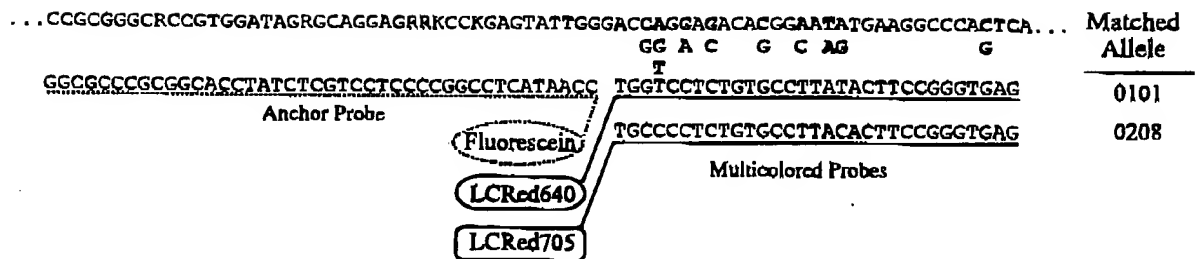


Figure 19. Predicted Tms for 2 Probes at a HLA-A Variable Reigon

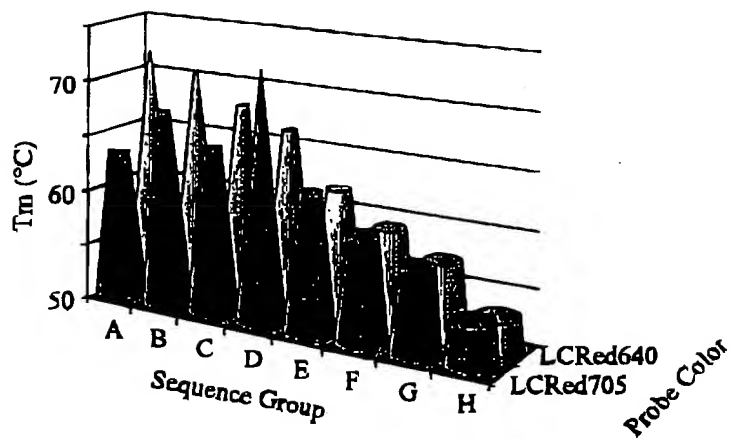


Figure 20. Sequence Variation and Probe Design at DRB1

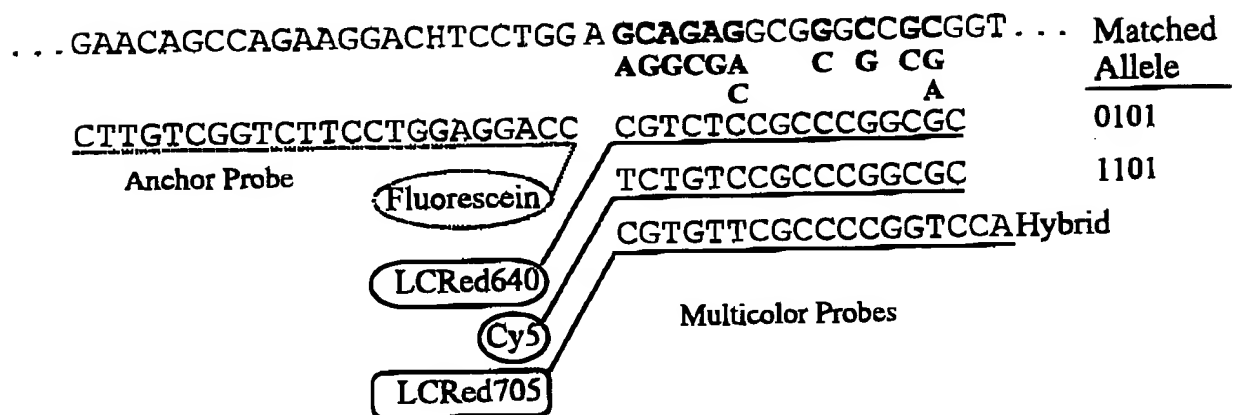


Figure 21. Predicted Tms for 3 Probes at a HLA DRB1 Variable Region

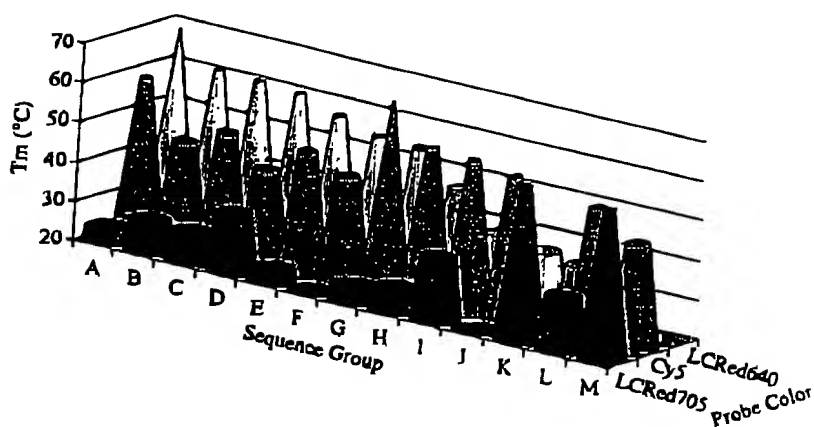


Figure 18.

~~Figure 28.~~ Sequence Variation and Probe Design at HLA-A

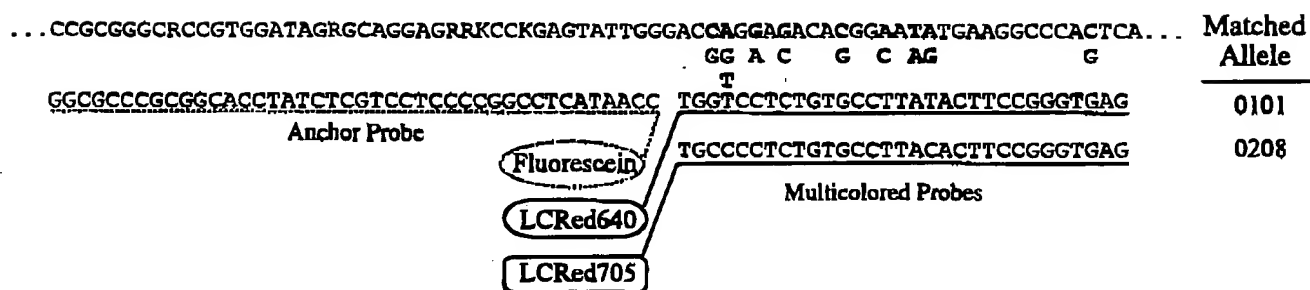


Figure 19. Predicted Tms for 2 Probes at a HLA-A Variable Region

Sequence Group	HLA-A Alleles	Frequency (%)	Predicted Probe Tm	
			LCRed 640	LCRed 705
A	0101-0103 0106 3601	15.2	71.6	63.3
B	3002-3006 3101 3103 3104 3201-3204 7401-7404	6.2	70.3	67.6
C	0301 0302 0304 0305	13.4	67.8	65.0
D	0201 0202-0207 0209-0219 2408 16 additional 02XX	27.2	66.1	72.3
E	2301-2305 2402-2406 8 additional 24XX	11.7	61.6	62.5
F	2501-2503 7 additional 68XX	3.6	58.9	59.6
G	2501-2503 2601-2606 2608-2612 3301-3305	7.2	56.8	57.8
H	2502 2613 6601 6602 6801-6802 6901	-7	52.8	54.1
Total Estimated Frequency		90.9		

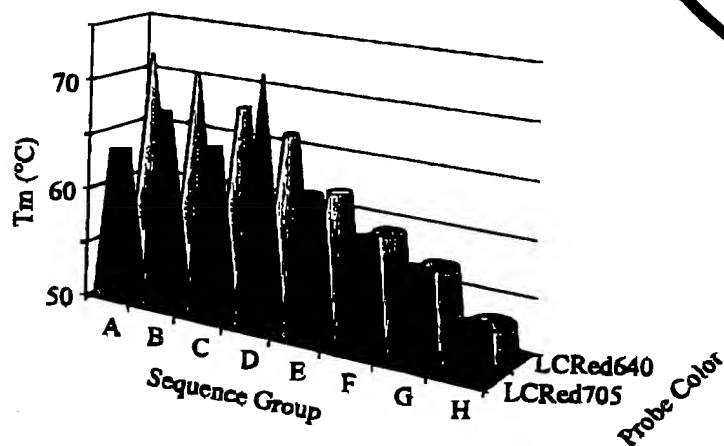


Figure 21. Predicted Tms for 3 Probes at a HLA DRB1 Variable Region

Sequence Group	DRB1 Alleles	Frequency (%)	Predicted Probe Tm		
			LCRed 640	Cy5	LCRed 705
A	0101 0404 0405 0408 0410 1402 1406	15.8	69.5	59.0	23.8
B	0801 0802 0803 0804	4.1	61.2	45.7	28.3
C	1501 1502 1503	13.6	60.9	50.4	27.8
D	0401	6.4	60.1	43.6	35.3
E	0901 1401 1404	3.8	57.1	50.6	23.5
F	1001	9.9	54.5	46.9	<20.0
G	11011 11012 1104 1305 16012 16022	7.5	54.1	68.1	24.1
H	0103 0402 1102 1103 1301 1302 1304	13.1	46.4	59.0	26.1
I	1303	1.2	57.4	58.2	36.3
J	11013 1201 1202 16011 16021	4.5	35.5	56.7	<20.0
K	0301 0302 0303 0305	10.1	34.4	<20.0	59.2
L	0403 0407	2.0	29.3	33.6	33.6
M	0701	8.2	<20.0	46.5	58.0
Total Estimated Frequency		92.0			

